

DERWENT-ACC-NO: 1979-90304B

DERWENT-WEEK: 198438

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TITLE: Heat-treatment of resin coated
metal vessels to improve the
adhesive property of the resin
layer

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP 54141886 A	November 5, 1979	JA
JP 84035344 B	August 28, 1984	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL- DATE
JP 54141886A	N/A	1978JP- 049010	April 25, 1978

INT-CL-CURRENT:

TYPE	IPC DATE
CIPP	B32B37/00 20060101
CIPS	B29C51/00 20060101
CIPS	B29C63/00 20060101
CIPS	B29D31/00 20060101
CIPS	B32B15/08 20060101
CIPS	B32B15/09 20060101
CIPS	B65D25/04 20060101
CIPS	B65D25/34 20060101
CIPS	C08J5/18 20060101

ABSTRACTED-PUB-NO: JP 54141886 A

BASIC-ABSTRACT:

A method of heat-treating coated metal vessels comprises moulding thermoplastic resin-coated foil-like or sheet-like metal materials into vessels, heating the vessels at $(T_m - 5)$ degrees C to 300 degrees C (T_m : the m. pt. of the resin), and immediately quenching the vessels to below $(T_a - 30$ degrees C) (T_a : the temp. at which the resin begins to be tacky).

The pref. thermoplastic resin layer includes (a) a resin layer comprising 20-70 wt. % of polyethylene terephthalate resin, 0-60 wt. % of polybutylene terephthalate resin and 0-30 wt. % of one polyolefin selected from ionomers, modified polyolefins, ethylene-acryl ester copolymers, (b) a composite of (1) a layer comprising 30-85 wt. % of polybutylene terephthalate resin, 1-40 wt. % of polyethylene terephthalate resin and 10-30 wt. % of at least one polyolefin selected from the

abovementioned group and (2) a layer comprising 75-100 wt. % of polyethylene terephthalate resin or polybutylene terephthalate resin and 0-25 wt. % of a one polyolefin. The resin layer is 5 μ -1 mm thick. The metal base is 0.010-1 mm, pref. 0.10-0.30 mm thick.

The heat treatment improves markedly the adhesive power of the resin layer.

TITLE-TERMS: HEAT TREAT RESIN COATING METAL
VESSEL IMPROVE ADHESIVE PROPERTIES
LAYER

DERWENT-CLASS: A32 P73 Q32

CPI-CODES: A11-A02; A11-B02; A12-B04; A12-P06;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0016 0218 0229 0232 0241 0495
1291 1319 1323 1462 1990 2368
2371 2413 2654 2659 2726 2728
2774

Multipunch Codes: 03- 034 040 041 046 047 074 076
081 143 144 151 155 163 166 169
170 171 173 231 27& 369 381 387
428 443 47& 477 575 596 597 600
688 03- 034 040 041 046 047 074
076 081 143 144 151 155 163 166
169 170 171 173 231 27& 369 381
387 428 443 47& 477 575 596 597
600 688